EDUCATION DEPARTMENT.

UNIVERSITY OF MYSORE.

FINAL B. A. DEGREE EXAMINATION, 1918.

The following candidates failed in the subjects marked against their numbers :—

* PART I.

6	b	24	b	43	b	55	c	68	a b
11	a	27	c	44	a	60	a	73	a
13	c	29	a b	47	a	61	a	74	a
16	b	32	b	49	c	62	c		
18	b	33	c	51	c	63	a		
21	b	34	c	52	a	65	b		
23	a	39	a b	53	c	66	c		

*(*a*) English, (*b*) Second Language. (*c*) Total deficiency.

* PART II.

8	a	31	b.	50	b	72	a
11	a	33	a	53	b	73	a b
16	a b	34	b	61	a	74	a b
20	a b	39	a b	66	b		
27	a	44	c	68	a b		

* (*a*) First Division, (*b*) Second Division, (*c*) Total deficiency.

ENTRANCE EXAMINATION OF 1918.

The following candidates failed in the subjects marked against their names :—

(*a*) English. (*b*) Second Language. (*c*) Optional group.

1	a	78	a b c	150	a	213	a	282	a	345	a
7	a	79	b c	151	a	215	a b c	284	a	346	a
9	a c	80	a	153	a	219	Absent	285	b	347	a
12	a c	81	a	155	c	221	a	286	a	349	a
13	a	82	a c	156	a	222	a c	287	a	351	a
18	a	84	a c	157	a	223	Absent	290	a c	352	a c
19	a b	87	c	158	a	224	a	291	c	354	a
20	a	90	a	159	a	225	a	292	a	356	a
22	a	91	a	161	a c	226	a	293	a	357	c
23	c	92	a	164	c	228	a	294	a	358	a
24	a	93	a c	165	c	229	c	295	a	359	a c
25	a	94	c	167	a	231	a c	296	a c	362	c
26	a b c	97	a	169	a c	233	a c	297	Absent	366	a
27	a	100	a	172	a b c	234	a b	298	a	367	a
31	c	101	a c	173	a c	235	a	300	a c	368	a
32	a	102	a	174	a c	236	a b	305	a	369	a c
33	c	103	a	175	a	237	a	306	a	371	a b c
34	a c	106	a c	176	a	238	a	307	a b c	372	a
37	c	109	a c	178	a	239	a c	308	a	373	a
38	a c	110	a c	179	c	240	a	309	a	374	a c
40	a	111	a c	180	a c	241	a	310	c	375	a
41	a	115	c	181	a	243	a	314	a b c	376	a c
43	a b c	116	a c	182	a c	245	a	315	a c	377	a
44	a	119	c	183	a	248	a c	317	c	378	a
46	a	120	a c	184	a	250	a	318	a c	379	a b c
48	a c	121	a	185	a c	251	a	319	a	380	a b c
49	a b c	122	a	187	a c	252	a c	321	a c	381	a
50	a b	124	a	188	a c	254	a	322	a	382	a
52	a	125	a c	189	c	256	a	324	a	383	a c
53	a	128	a c	190	a c	258	Absent	325	a	384	a
56	a	129	a c	192	a	259	ac	326	a	387	a b
58	a c	130	a	194	a	261	a	327	a	388	a
59	a b	131	a	195	a	262	a	328	a	390	a
60	a c	132	a	196	c	264	a	329	a c	394	a b c
61	a	133	a	197	a	265	a	330	a	395	b c
63	a c	136	a b	198	a	271	a	332	a	396	a
65	a b c	137	a	199	a	272	a b c	333	a	397	a c
66	a c	139	a	200	a	273	a c	334	a	398	a
68	c	140	a	201	c	274	a b c	335	a	399	a
71	a	142	a	202	a c	275	a c	336	a	400	a
72	a	144	a	203	a	276	a	337	c	401	a
73	a c	145	a	204	a b c	277	a	339	a	402	a
74	a c	146	a c	208	a	278	a	341	a	405	a
76	a	147	a c	209	a	279	a	342	a	406	c
77	a	149	a c	210	a c	280	a	343	a c		

Dated 8th June 1918.

FINAL B. A. DEGREE EXAMINATION, 1918.

The following is a list of the successful candidates arranged according to Colleges.

Regr. No.	Name
	PARTS I & II.
	Maharaja's College.
2	Ananda Rau, Yelandur-Krishna Murthi
4	Bajja Narasimhaiya
9	Cheluviengar, Holavanahalli
14	Kalappa, Saklespur
15	Kanakalakshmamma, Tandur
22	Krishnaiengar, H.
25	Lakshminarayana Rao, Nelamangala
28	Narasimhachar, Hittuvalli Tirumalachar
30	Narasimhamurti, Lakshmesvar
36	Narayan Sastri, M. Y.
40	Raghavendra Rao, Vencoba Rao
41	Rajagopalachar, Gubbi
42	Ramachandrachar, Keshava
45	Ramakrishna Rau, Keelakote
46	Ramaswamaiya, Mudlapur
48	Ranga Rao, Choulur
54	Sreenivasa Rao, Harapanahalli
59	Srinivasa Rao, Maddagiri Raghavendra Rao
64	Subbasastry, Kadiri Garudadri
69	Venkata Ramaiah, Rudrapatna
70	Venkatarama Iyer, Manathattai Kuppuswami Iyer
75	Venkatasubbiah, Bettadapur
76	Yoganarasimham, Hole-Narsipur
	Central College.
1	Ahmed Ali, M.
3	Anantha Murthy, T. S.
5	Balasubrahmanyam, Mysore Subrahmanyam
7	Bhavani Shankar Rao, Halady
10	Chokkanna, Malur
12	Garudachar, Kalkunte Venkatakrishnamachar
17	Krishnamurti Rao, Mysore Raghavendra Rao
19	Krishnaswami, Kolar Ramakrishna Iyer
26	Madhava Rao, Paraki Achyutha Rao
35	Narayana Rao, Lakkur
37	Neelakantappa, Nadiga
38	Panduranga Rao, Kandlur
56	Srinivasa Iyengar, M. V.
57	Srinivasan, M. B.
58	Srinivasa Rao, Ganjur
67	Thimmaiya, Malvalli
71	Venkataramanan, Kannurpathy Subbarayan
	PART I ONLY.
	Maharaja's College.
50	Shamanna, Konanur
	Central College.
8	Bhavani Shankar Rao, Baise
20	Krishnaswami, Bindiganavale Anantaramiengar
31	Narasimha Sastry, Mulbagal Shamanna
72	Venkataramana Rao, Rama Rao
	PART II ONLY.
	Maharaja's College.
6	Bhashyakarlu Naidu, Gundlur R
23	Lakshmanacharya, Tirumalai Srirangachar
24	Lakshman Rao, Bellur
43	Ramachar, Tirumalai
47	Ranajodha Singh, H., Mysore
49	Seshagiri Rao, Madaksi
51	Sreenivasaiya, Rudrapatna
52	Srinivasa Iyengar, Mandyam Ammanji
55	Srinivasa Rao, Talkad Ranga Rao
60	Subba Rao, Chinnabhandar
62	Subba Rao, Mullur Krishnappa
65	Sundara Rao, Shama Rao
	Central College.
13	Hanumanthaiya, D.
18	Krishna Rao, B.
21	Krishnaswami Rao, Soanphavdae, Bangalore
32	Narayana Iyer, Kowdle Subbier
63	Subbaraya, Belavadi

ENTRANCE EXAMINATION, 1918.

The following is a list of the successful candidates arranged according to Schools.

Regr. No.	Name
	Maharaja's Collegiate High School, Mysore.
2	Abdul Khudus, Tarikere
5	Ahamed Hussain
6	Ahobalachar, Tirumalei
17	Anantha Swamy Rao, Bapu Subba Rao
29	Bhaskara Rao, Hoskere
30	Bheema Rao, Mysore Subba Rao
42	Damodaran, Chenglepet Balakrishna Mudaliar
45	Desikachar, Vembar Nigamanta
51	Ethirajulu Naidu, Gundlur Ranga Ramanjulu Naidu.
57	Gopala Iyengar, Kalale
62	Govinda Raja Iyengar, Gundel Pandit
67	Gundu Rao, Haradanahalli
69	Guru Rajachar, Sreenivasa Murtyacharya
75	Jayasimha Rao, Mysore Narasimha Murty
83	Kasturi Rangachar, Gramam
86	Kothanda Rama Iyer, Angarai Krishnaswamy Iyer
98	Krishna Murti, Chillangi
99	Krishna Murti, Sreenivasa Rao
104	Krishnan, Vembar Kastoori
107	Krishnappa, Agali
108	Krishnappa, Aragam
112	Krishna Rao, Hoskote Subba Rao
113	Krishna Rao, Kappiah
117	Krishnaswami, Mysore
118	Krisnaswami Iyengar, Kadaba
123	Lakshminarayana Channarayapatna, Krishnappa
138	Mallaradhya, Janthagahalli Basava Aradhya
148	Nanjappa, Bettadapur Krishnappa
152	Nanjundiah, Saligrama
154	Narasimhachar, Kankanhalli, L.
168	Narasimha Sastry, Devadu
191	Naronha, Joseph Cajetan
193	Padmanabhaiah Chatrada, Padmanna
205	Raghavachar, Tirumale Sreenivasa
211	Raghavendra Rao, Chandur Naranappa
214	Ramachar, Brahmanda Krishnamoortyachar
217	Ramachandra Rao, Cuddapah Subba Rao
218	Ramaiah, Gandoor
230	Rama Rao, Balajee Rao
232	Rama Rao, Gundlupet
246	Rangaswamy Iyengar, Mandyam Komor
247	Ramaswamaiya, Kankanhalli Gurunatha
249	Ramoo, Maraleswara-Upadya
266	Sampath Iyengar, Mysore Varadachar
302	Sivaswami, Sosale
303	Sogala, Nagappa
311	Sreenivasa Iyengar, Maddikere
312	Sreenivasa Iyengar, Mandayam Krishna Iyengar
313	Sreenivasa Iyengar, Anantapur
320	Sreerangachar, Tirumale Vinjamur
338	Subba Rao, Devalapur
340	Subba Rao, Hosakote
348	Subba Rayappa, Rudrapatna Kallikote
353	Subramhanyam, Surabhatta
392	Venkata Subba Sastry Mandikala Rama Sastry
393	Venkatasubbiah, Gouri
403	Viraswamy Naidu, Kuppuswamy Naidu
404	Vishnu Bhatta, Sivarajpur
407	Yamunacharya, Mysore

Regr. No.	Name
	Collegiate High School, Bangalore.
4	Adavappa, R.
14	Anantha Rama Rao, Mysore
15	Anantha Ramiengar, M.
16	Ananthasagara, G.
21	Atri, R. G.
35	Chandrasekharaiya, T.
39	Charles Solomon, P.
47	Devaraja Rao, Mysore Raghavendra Rao
54	Garudachar, Minisandram Srinivasaraghavachar
64	Govinda Rao, Chikballapur
70	Hanumantha Rao, Gownipally
85	Kesava Rao, L. C.
88	Krishnamachary, S.
89	Krishna Moorty, Nuggehalli Raghaviah
95	Krishna Moorty, J.
96	Krishnamurthy, K. S.
105	Krishnappa, K.
114	Krishna Rao, P.
126	Lakshminarayana Rao, Magadi
127	Lakshminarayana Rao, Tarikere
134	Mahabala Rao, Mysore
135	Mohamed Imam, J.
143	Nagaraja Rau, D. S.
160	Narasimha Iyengar Kadaba Narayana Iyengar
162	Narasimhalu, Jenakula Gothra Muthyala
163	Narasimha Murthy, G.
166	Narasimhan, Nataraja Aiyyar
171	Narasinga Rao, Channarayapatna
177	Narayana Rao, B.
186	Narayana Rao, Salagame Narasimhaiya
206	Raghavendrachar, C.
207	Raghavendrachar G.
212	Raghavendra Rao, D. S.
216	Ramachar, P.
220	Ramaiya, M. G.
227	Ramanna, Secondarabad, Nonavinakere
242	Ramaswami, Vaniyambadi Krishnaswami Iyer
244	Ramaswamiengar, Asur
253	Ranga Rao, Kadom, Sivar Venkata Rao
255	Rangaswamy, K.
257	Rangaswamy Setlur, V.
260	Rathnarajiah, A. P.
263	Sadasiva Rao, Benkipur Subba Rao
267	Sanjiva Rao, N. N.
268	Sankarappa, Belagatta Khanda Rao
269	Sarma, Subba Pandit
270	Satyabodhachar, B K.
281	Setu Rao, Channagiri
283	Shamaraja Iyengar, K.
288	Shankara Chetty, G.
301	Sivasankara, Honganur
304	Soorappa, K. S.
316	Sreenivasa Rao, G. N.
323	Srinivasa Iyengar, M. O.
331	Srinivasa Rau, Shikarpur
350	Subramanyam, P. S.
355	Sundara Rama Rao, Channarayapatna Venkata-ramanaiya.
360	Syed Abdul Basith
363	Tirunaraniengar, B. K.
365	Vani Rudrappa, Tumkur
370	Vasudeva Rao, H. S.
385	Venkataramanappa, N.
386	Venkataramaniah, Gunjur
391	Venkata Srinivasa Rao, Bellary
	Collegiate High School, Tumkur.
10	Ananthanpotti, J.
11	Anantha Raj, Sravandanahalli Nagappa
55	Ghouse Mahamood
170	Narasinga Rao, Burjanaroppa
289	Shankara Rao, Magal
299	Sivaramiah, Konanur
344	Subba Rao, Maddur
364	Triembaka Rao, Mysore
389	Venkata Rao, Malur Appoo Rao
	Collegiate High School, Shimoga.
3	Achyuta Rao, Balakrishna Rao, Ranebennur
28	Bharadwaj, Krishnaswamy, Srinivasiengar
36	Chandrasekhariah, Sivarajapur
361	Thimmappaiya, Salagame Nagappiah
	Maharani's College, Mysore.
8	Ambujamma
141	Manjamma

THOMAS DENHAM,
Registrar.

OFFICE OF THE INSPECTOR-GENERAL OF EDUCATION.

Notification D. No. dated 10th January 1918.

The Officiating Inspector-General will be glad to see Government Officers, visitors and other gentlemen on business at his office on every Thursday, not being a gazetted holiday, between the hours of 12 noon and 4 P.M.

During his absence on tour from Headquarters, the Deputy Inspector-General of Education or the Assistant to the Inspector-General of Education, will receive visitors and attend to them.

Notification D. No. 107, *dated the 3rd June* 1918.

Candidates, bearing the following Register numbers, and taking Urdu Language for Translation, have passed he English Lower Secondary Examination held in April 1918.

2372	79	573	593	1038	1583	1592	2510
2375	95	575	597	1039	1584	1888	2285
2376	99	590	800	1172	1590	1911	

UPPER SECONDARY EXAMINATION.

G. Mirza Mohadin Beig, Register No. 46, has passed the Mysore Vernacular Upper Secondary Examination held in April 1918. Candidates, bearing the following Register numbers who have answered Elementary Mathematics in Urdu and who have taken Persian

as their First Language, have passed the Vernacular Lower Secondary Examination held in April 1918.

2690	3157	3364	3911	4133	4553	5270	5597
2928	3160	3370	3912	4135	4554	5271	5598
2933	3161	3373	3913	4142	4555	5277	5612
2936	3163	3374	3914	4143	4556	5278	5772
2938	3164	3376	3915	4144	4561	5282	5929
2945	6200	3377	3916	4507	4724	5293	5930
2946	3210	3378	3925	4256	5223	5590	5931
2951	3219	3641	3926	4498	5258	5591	5933
3070	3221	3907	3928	4499	5259	5592	5934
3075	3363	3908	4130	4549	5260	5594	6194
3077							

The result of No. 2923 will be announced later on.

Notification D. No. 110, *dated 6th June* 1918.

The undermentioned candidates are hereby disallowed to appear for the Lower Secondary Examination of April 1919 for having been found guilty of malpractices at the last Lower Secondary Examination :—

(1) Reg. No. 2976—D. M. Lakshmiharasamma, daughter of D. Munisamappa, a pupil candidate from Government Girls' High School, examined at Bangalore Centre.

(2) Reg. No. 4208—N. Subramanya Sastri, son of Narasimha Sastri of Mandya, a private candidate examined at Mysore Centre.

(3) Reg. No. 4856—Singri Gowda, son of Narasimha Gowda, a pupil candidate from Basaralu V. E. School, Mandya Taluk, examined at Seringapatam Centre.

(4) Reg. No. 5952—G. Channabasappa, son of Sivalingappa, a private candidate examined at Davangere Centre.

Notification D. No. 111, dated 7th June 1918.

THE MYSORE S. S. L. C. SCHEME.

COMMERCE COURSE. (TWO YEARS.)

Syllabus for "Commerce" to be introduced as an optional subject in the Secondary School Leaving Course.

Number of hours to be provided for this subject is taken at 4 hours a week in each of the V and VI Forms of High Schools. In the V Form, Book-keeping, Banking and Commercial Practice may be taught and in the VI Book-keeping, Banking and Economic Geography to be taught.

Book-keeping.—The Double Entry System. Journalising transactions. Posting into Ledger Accounts. Preparation of Trial Balance, Profit and Loss Account and Balance Sheet.

Personal, Real and Nominal Accounts. Their general nature. The Ledger Accounts, a knowledge of which, in their simplest form, a candidate is expected to acquire :—Goods Account, Capital Account, Drawing or Private Account, Premises Account, Furniture Account, Machinery and Plant Account, Investment and Securities Account, Bills Receivable and Bills Payable Accounts, Loan Account, Debtor's and Creditor's Accounts, Depreciation Account, Interest Account, Discount Account, Rent Account, Trade Expenses Account, Stationery and Stamps Account, Suspense Account, Current Account, and Cash Credit Account, the last two being of the form kept in Banks. Bank reconciliation Statement.

Subsidiary books, their advantages and postings. Cash Book with Bank and Discount Columns, Sales Book, Purchases Book, Returns Book, Bill Books and Journal. Petty Cash Book kept on the imprest system. Opening and Closing entries.

Text-Book :—

Elements of Book-keeping by K. Subramanya Iyer. Rs. 1-4-0, Srinivasavaradachari, Madras.

Books that may be consulted :—

(i) Pitman's Primer of Book-keeping (Indian Edition).
(ii) Elementary Book-keeping by L. C. Cropper.
(iii) Do do by Spicer and Pegler.
(iv) Book-keeping and Accounts by Vaidyanatha Iyer.

Banking.—Barter, Disadvantages of Barter. Money; its functions and attributes. The denominations and legal tender, quality of metallic and paper currencies of India and of England. The names, main sub-divisions, if any, and value at Par compared with Indian or English money, of the Principal Standard money of leading commercial countries of the world such as:—the United States of America, France, Germany, Russia, Austria, Japan and China. The weight and fineness of a sovereign, and of a rupee. Reserves against issues of Currency Notes in India and in England.

The general nature of Banking transactions. Utility of Banking Institutions. The differentiating characteristics of the several kinds of Banking Institutions in India :—Presidency, Exchange, Joint Stock, Co-operative and Private Shroffs and Sahukars.

Functions of a Banker. The nature of his liabilities and assets. His liabilities on payment and collection of Cheques and Bills of Exchange. Protection afforded to Banker with regard to endorsements on Cheque and Bills of Exchange. The different classes of borrowers dealing with a Banker and the limits of their powers and transactions. Classes of Chief acceptable securities offered by borrowers to a Bank.

Opening of an account with a Bank, Paying Slip, Pass Book and Cheque Book. How money is paid on Cheques. Form of Cash Credit, Loan and Current Accounts maintained in a Bank.

Text-book :—

Syke's Banking and Currency, Rs. 2-3-0, Butterworth & Co., Calcutta.

Books for consultation :—

(1) Indian Currency and Banking Problems by Shan and Tannan.
(2) Bankers' Clerk.
(3) Gandy's Elements of Banking.

COMMERCIAL PRACTICE.

ONE PERIOD A WEEK OF 50 MINUTES EACH FOR 2 YEARS.

1. *The Mechanical Operations of an Office or Counting House.*—Outgoing letters Press copying of written and typewritten matter; Modes of addressing Official, Commercial and Private letters; Indexing and Cross Reference, making up letters for post; addressing envelopes, enclosures, late fee letters, Registration and Insurance of letters; Postage Book and Petty Cash Book; Incoming letters, Filing, Pigeon-holing and docketing letters.

2. *Buying and Selling of goods.*—Purchase and Sales; Price lists, Price current, Tenders and estimates, Firm Offers, Quotations, Orders, How to open business; Contract Notes, Bought and sold Notes, Del Credere contracts, Delivery orders, Invoices, Credit Notes, Delivery Book, Consignment Notes, Debit Notes, Statements, Discount, Commission, Brokerage, Forwarding Goods, Delivery Book, Consignment Notes, Remitting Money through the Post Office, Postal Orders, Money Orders, Telegraphic Money Orders, Receipts for money.

3. *Correspondence.*—First steps in "Business Correspondence." Examples of letters, Telegrams, Methods of obtaining Multiplex copies.

4. *Important Postal Matters.*—

Text-book :—

The Home Trade or Modern Commercial Practice by Hopper and Graham, (Macmillan & Co.)

ECONOMIC GEOGRAPHY.

ONE PERIOD A WEEK OF 50 MINUTES EACH, FOR 2 YEARS.

A. Commercial Geography and its principles.—Leading Physical and Political influences; necessary conditions of various industrial and commercial developments. Agriculture, Manufacture and Commerce.

B. Geography of the Chief Products.—Production of food and drink, Wheat, Rice, Animal products, Sugar, Coffee, Tea, Tobacco, Textile raw material and their manufacture, Cotton, Wool, Flax, Hemp, Jute, Silk (and other fibres).

Other products and their manufacture :—Coal, Iron, Leather, Petroleum, Timber, Vegetable oils, Chemicals, and Clay.

C. Countries, their Agriculture, Industries and Commerce.—A general knowledge of the chief characteristics, Physical features and resources, Climate and density of population of Mysore and India. Their Mineral, Vegetable and Animal productions; how raised and disposed of; their main features the markets to which they are sent and the uses to which they are put. The foreign trade of Mysore and India.

D. Marking on an outline map of India any specified administrative, divisions, Railways, Rivers and Canals and Markets of commodities.

Text-Book:—

(1) Commercial Geography by E. C. K. Gonner, Rs. 2-4-0.

HUMAN PHYSIOLOGY, (2 YEAR COURSE).

For the V Form.

General structure of the Human body and the arrangement of the various organs (as revealed by dissection of a rabbit). The various parts of the Human skeleton treated in an elementary way. The important joints. The movements in the Human body. The nature and functions of blood. Heart and circulation.

For the VI Form.

Respiration. Digestion and absorption of food. Functions of important glands in the Human body. Waste and excretion. Temperature and its maintenance. Functions of the Central nervous system and sensory organs.

ELEMENTARY SCIENCE SYLLABUS.

The Elementary Science course differs from the course for Optional Science, not so much in the ground to be covered as in the method to be followed in teaching it and in the detail of knowledge required. The course is designed to give the student a general knowledge of the science of everyday life—detailed knowledge of the science of Physiology, Physics and Chemistry will not be expected of the student.

In teaching, the lessons should be as much as possible in the form of practical demonstrations. The teacher might consult V. T. Murche's Object Lessons in Science to see the type of lesson that is desired.

The course is planned to cover a period of three years. During the first year four periods a week should be given, whilst during the remaining years two periods a week should be sufficient.

SYLLABUS.

First year: I. Physiology, 20 periods.

1. Study of the Human skeleton. Names and functions of the principal bones (skull, face, vertebral column, ribs, breastbones, limbs and teeth).
2. Muscles and tendons (general structure and functions only).
3. The skin.
4. The blood and its circulation.
5. The heart.
6. The lungs.
7. The digestive organs.

II. Elementary properties of matter, 15 periods.

1. The states of matter.
2. Common properties of solids, cohesion, tenacity, ductility and malleability
3. Common properties of liquids, transmission of pressure, incompressibility and viscosity
4. Common properties of gases—compressibility and weight.
5. The balance and its use.
6. Measurements of length—straight and curved.
7. Measurements of area.
8. Measurements of volumes (solid and liquids).

III. Heat, 25 periods.

1. Practical description of the common thermometers and their uses.
2. Conduction of heat. Conductors and insulators. Examples of conduction and insulation from everyday life.
3. Convection and its applications in every day life.
4. Boiling and distillation.
5. Radiation, Radiators and Absorbers. Examples.
6. Some effects of temperature on weather—
   (*a*) Effect on amount of vapour in the atmosphere—rain, dew, mist, clouds, etc.
   (*b*) Production of air currents, land and sea breezes, monsoons, etc.
7. Ventilation. The theory and every day applications.
8. The fact of expansion.
9. Effects in every day life and precautions necessary.
10. The peculiar behaviour of water as regards expansion.
11. Meaning of specific heat.
12. Meaning of latent heat. The melting of solids.

IV. Chemistry, 15 periods.

1. Preparation and properties of Oxygen, Hydrogen and carbon-di-oxide.
2. Elementary Chemistry of air—constituents and properties.
3. Do water—constituents and properties.
4. Solution, filtration, decantation and crystallisation.

V. Revision and Tests, 45 periods.

Second year.—

I. Revision of first year except Physiology, 10 periods.

II. Common machines and appliances.
1. Measurement of force by spring balance.
2. The lever. The principle of moments deduced practically.
3. The lever in every day life. Numerical examples.
4. Practical examination of the advantage of single pulley.
5. Do do wheel and axle.
6. The hydrostatic press.
7. The common pump, the lift pump, the force pump.
8. The Syphon.

III. Light, 10 periods.
1. Nature and propogation of light.
2. Shadows and pinhole camera.
3. Tracing a ray of light to shew reflection of a ray of light at a plane surface.
4. Tracing a ray of light to shew refraction of ray at plane surface.
5. Every day applications and examples of reflection and refraction (mirror, stick in water apparent depth of pools and mirage).

IV. Chemistry, 12 periods.—
1. Combustion and oxidation. The flame of a candle.
2. The principal properties of Sulphuric Acid.
3. Do Hydro Chloric Acid.
4. Do Nitric Acid.
5. Do Caustic Soda.
6. The constitution and production (Non-detailed) of glass, soap and washing soda.

V. Revision, Tests and questioning, 16 periods.

Third year—

I. Revision of previous year's work, especially Physiology, 14 periods.

II. Light—
1. Refraction through a prism (Practical) 10 periods.
2. Refraction through a lens do
3. The eye considered as a simple lens.
4. Spectacles and magnifying glass.
5. Simple description of the telescope, microscope, magic lantern and camera.

III. Electricity, 14 periods—
1. Electrification by rubbing.
2. Two kinds of Electricity.
3. Conductors and insulators.
4. Electroscope (simple description and use—not theory).
5. Atmospheric electricity, Lightning and lightning conductors.
6. The Voltaic cell. (Not theory.)
7. Effects of currents shown practically—magnetic, heating and lighting.
8. The Electro-Magnet, Electric bell and Electric lighting.

IV. Chemistry, 10 periods.—
1. Iron. Occurrence. Extraction (not detailed) Chemical. Properties.
2. Alluminium. Do do do
3. Gold. Do do do
4. Cements, mortars and bricks.
5. Common disinfectants, (burning of sulphur, hydrogen, peroxide, boric acid permanganate and bleaching powder).

V. Revision tests and questioning, 12 periods.

SCIENCE SYLLABUS OPTIONAL, PART I, CHEMISTRY.

Form V.

I. General introduction:—
Physical and Chemical Change.
Mixtures.

Compounds and elements.
Types of Chemical change (composition and decomposition).

II. Study of simpler Non-metallic elements and their important Compounds.
A. Oxygen:—Preparation and properties. Oxidation and combustion.
B. Hydrogen:—Preparation and properties. Compound with Oxygen—water. Composition of water. Properties—solutions, effect of temperature on solubility—saturated solutions and solubility curve—hardness of water—crystallisation and water of crystallisation.
C. Sulphur:—Occurrence, extraction and properties.
Allotropy.
Result of burning sulphur in air—sulphur dioxide, preparation and properties.
Its action on litmus. Examination of action of other oxides on litmus. Preliminary study of acids and basis. Qualitative interaction of acids and bases—salts. Definition of metals and non-metals.
Sulphuric acid. Its constitution and properties.
Hydrogen di-sulphide—preparation and properties.
D. Carbon:—Occurrence and varieties. Properties and uses.
Coal.
Carbon di-oxide—preparation and composition.
E. Nitrogen. Preparation and properties.
The atmosphere composition.
Oxides. Preparation and properties of nitrous and nitric oxides.
Nitric acid. Preparation and properties.
Ammonia. Preparation and properties.
F. Chlorine:—Preparation and properties.
Hydrochloric Acid. Preparation, composition and properties.

III. Comparisons:—
(*a*) The action of the three acids on different substances, *e.g.*, common metals, sawdust, sulphur, fabrics.
(*b*) The tests for sulphates, nitrates, chlorides, sulphides, carbonates.
(*c*) The effect of heat on the principal substance studied.

Number of periods, 45.

Form V, Practical Work.

1. Separation of soluble and insoluble substances. *Filtration and decantation.*
2. Recovery of soluble substance:—(*a*) distillation.
3. Do. (*b*) crystallisation.
4. Use of a chemical balance.
5. Study of crystals. Deliquescence and efflorescence.
6. Percentage of water in a hydrated crystal, *e.g.*, alum.
7. Mixtures and compounds. Iron and sulphur.
8. Combination, *e.g.*, burning of sulphur or magnesium. Decomposition, *e.g.*, heating of red oxide of mercury.
9. To find the amount of solid impurity in drinking water.
10. To prepare a saturated solution of copper sulphate—to find how much copper is dissolved.

Number of periods 15.
Revision and tests periods 30.

Form VI.

I. Revision of Fifth Form work.
II. Study of harder non-metallic elements.
A. Phosphorus—Occurrence, properties and uses. Product of combustion in air. Meta and ortho phosphoric acid. Preparation and properties. Tests for soluble phosphates.
B. Silicon.—Silicon-di-oxide. Its occurrence and use.
C. Boron.—Boric Acid. Its constitution and use. (The elements silicon and boron should not be studied.)

III. Harder Chemical theory.
Law of definite proportions.
Combining weights.
Valency.
Law of multiple proportions.
Elementary ideas of atomic weights and molecular weights leading up to the use of symbols and equations.

IV. Quantitative work.—
1. Equivalent weights.
2. Calculation of weights from formulæ.
3. Neutralisation and normal solutions.

V. Metals.—
1. The occurrence, extraction and properties of copper, alluminium and iron.
2. The manufacture and chemical properties of the following common substances. Sodium chloride, carbonate, bicarbonate, and hydroxide, potassium nitrate, magnesium sulphate, copper sulphate, ammonium chloride, lime and bleaching powder.

VI. Other manufacturing processes.—
The manufacture of sulphuric, nitric and hydrochloric acids.

Number of periods 45.

Form VI, Practical work.

1. Preparation and properties of Oxygen.
2. Do do Hydrogen.
3. Do do Carbon-di-oxide.
4. Behaviour of a chloride with various reagents, *e.g.*, silver nitrate, lead acetate, concentrated, sulp. acid and manganese di oxide.
5. Behaviour of a nitrate with various reagents, *e.g.*, copper and concentrated, sulph. acid, ferrous sulphate and concentrated, sulph. acid.
6. Behaviour of a sulphate with various reagents, *e.g.*, barium chloride, and lead acetate.
7. Behaviour of a carbonate with various reagents, *e.g.*, an acid, lime water, ferrous sulphate.
8. Identification of a given salt as one of the above.
9. Equivalent weight of a metal.
10. Use of pipette and burette.
11. Percentage of acid in an aqueous solution by neutralisation with normal alkali.
12. Percentage of alkali in mixture of alkali and common salt by neutralisation with normal acid.
13. The action of the three common acids (dilute and concentrated, hot and cold) on the common metals.

Number of periods 25.
Revision and tests 20.

PART II.—PHYSICS.

Form V.

1. British and metric units of length, area, volume and weight.
2. Common instruments for measuring length—scales, slide and compass calipers. Measurement of curved lines. Circumference of circle compared to diameter.
3. Measurement of area—area of common regular figures and solids.
4. Measurement of volume—volume of common regular solids. Volume of solids by weighing and displacement. Volumes of liquids—use of pipette, burette and measuring cylinder.
5. Mass and weight. Use of the balance. (Common and spring.)
6. Density.
7. Measurement of time. Units. Simple pendulum. Experimental deduction of relation between period and length, clocks.
8. Properties of matter. Elementary study of the properties of solids, liquids and gases (Revision of Elementary Science work of previous year).
9. Bramah Press.
10. Archimedes' theorem and specific gravity.
11. Air pumps.
12. The barometer.
13. The syphon.
14. Boyle's law.

Number of periods 30.

Heat.—

Revision of work done in elementary science in previous year with the following additions:—
1. The relation of the Centegrade and Fahrenheit scales.
2. Rutherford's maximum and minimum Thermometer.
3. Coefficient of linear expansion—experimental determination and use in calculations.

4. Charles' Law. Applications.
5. Experimental determination of specific heat.
6. Definition of quantity of heat.
7. Experimental determination of latent heat.
8. Freezing mixtures.
9. The dependence of boiling point on pressure.
10. Every day illustrations of the convertibility of heat and work.

Number of periods 20.

Sound.—

1. Sound, the result of vibration.
2. Medium of propagation of sound.
3. Measurement of velocity of sound in air (by firing a gun).
4. Echoes.
5. Characteristics of a musical note.
6. The causes of loudness, quality and pitch.

Number of periods 5.

Practical work.—

1. Measurement of dimensions of work table.
2. Graph shewing relation between inch and centimetre.
4. Use of balance.
4. Length of curved lines.
5. Diameter of disc sphere.
6. Area of a circle.
7. Volume of irregular solid—by displacement, specific gravity.
8. Specific gravity by Archimedes' theorem.
9. Specific gravity of a liquid.
10. Use of thermometer to find boiling point.

Number of periods 10.
Revision and tests 25.

PART II—PHYSICS.

Form VI.

I. Light.—

1. Production and rectilinear propagation of light.
2. Shadows and eclipses. Photometry (Bunsen and Rumford Photometers).
3. Laws of reflections.
4. Experimental determination of position of image for concave mirror (real image).
5. Definition of focus. Graphical determination of position of image for plane and spherical mirrors.
6. Laws of refraction. Refractive index.
7. Tracing a ray through a prism.
8. Graphical and experimental determination of position of image for a convex lens.
9. Simple description of Telescope, Microscope, Magic Lantern and Camera.
10. Composition of white light. Dispersion by a prism. A pure spectrum. The colours of bodies.

Number of periods 20.

II. Mechanics.—

1. Uniform velocity. Uniform acceleration.
2. Formulæ connecting space, velocity, acceleration and time for bodies moving with uniform velocity of acceleration.
3. Falling bodies, calculations.
4. Definitions of inertia, momentum, force and mass.
5. First law of motion.
6. Second law of motion. Units of force, gravitational and absolute.
7. Third law of motion.
8. Elementary treatment of work, power and energy.
9. Experimental determination of the centre of gravity of solids.
10. Equilibrium, stable, neutral and unstable.
11. Combination of two forces by parallelogram of forces. Experimental proof of theorem.
12. Experimental proof of principle of movements.
13. Simple machines treated practically—lever, single pulley, inclined plane, wheel and axle.

Number of periods 25.

III. Magnetism.—
1. Simple properties of magnets and methods of making them.
2. Polarity, attraction and repulsion.
3. Field of force round one or two magnets (experimental).
4. Magnetic induction.
5. Compass and dipping needle.

Number of periods 8.

IV. Electricity.—
1. Simple voltaic cell.
2. Magnetic effect of current. Direction of lines of force due to current. Principle and construction of the galvanoscope.
3. Polarisation and depolarising devices. Construction of the common cells. (Grove, Bunsen, Bichromate, Daniell, and Leclanache.)
4. The simple secondary cell.
5. Variation of current due to different cells or number of cells, leading to first idea of electromotive force. Practical definition of the volt as the unit.
6. Variation of current due to different circuits, leading to first idea of resistance. Practical definition of the 'Ohm' as unit.
7. Statement and simple application of Ohm's law. Definition of 'ampere.'
8. Other effects of current—chemical and heating.
9. Applications. Electroplating and electric lamps and heaters.
10. Common electric appliances described generally—electro magnet, Morse Sounder, lighting conductor.

Number of periods 22.

V. Practical work.—
1. The pendulum—period independent of mass; period independent of amplitude (for small amplitudes) relation of period and length.
2. Centre of gravity of triangle, parallelogram, circle, and irregular plane sheet.
3. Experiments with a moment bar.
4. Experiments with a single pulley (fixed and movable).
5. Determination of specific heat by mixtures.
6. Verification of laws of reflection and refraction.
7. Tracing path or ray of light through a prism.
8. Experiments with a magnet.—
   (i) points N. When suspended;
   (ii) like poles repel, unlike attract;
   (iii) making a magnet;
   (iv) tracing the field of force for one or two magnets with iron filings.
9. Simple work with a voltaic cell—
   (i) magnetic effect of current;
   (ii) magnetic field round a straignt wire carrying a current
   (iii) heating effect.

Number of periods 20.
Revision of Fifth Form work 20.
Normal revision and tests 30.

PEDAGOGICS.

(SYLLABUS.)

(One year Course, VI Form.)

I. (*a*) *Psychology.*—Scope of Psychology and its application to Education; Physiological basis of the Mind; Sense Organs and Sense Training; Nature and conditions of attention; Memory and Imagination; Reasoning, Judgment, Elementary feelings and emotions; Will, habits and formation of Character.

(*b*) *Principles of Education.*—Aims of Education—Physical, Intellectual, Moral and Social; Primary and Lower Secondary Education; their scope and organization; Educational Agencies—the Home, Society and the School.

II. *Methods of Teaching and School Management.*—
(*a*) *Methods of Teaching.*—General Principles of Teaching; Methods appropriate to the teaching of:—
   i. English.
   ii. Mathematics.
   iii. History and Geography.
   iv. Nature Study and Elementary Science.

(*b*) *School Management.*—School Hygiene including lighting and ventilation of class rooms; School furniture and apparatus; Time Tables and their construction; Important School Registers and their maintenance; School Discipline—Rewards and Punishments.

The following books in Pedagogics are recommended:—

i. Talks to Teachers on Psychology by W. James.
ii. Practical School Method and Organization by Boardman.
iii. Education and Psychology by Michel West.

N.B.—At least three *hours'* of tuition to be given a week, and the courses to be theoretical only.

ELEMENTARY ECONOMICS.

(Two year course.)

1. The following books are recommended for the 2 year Course, commencing in the V Form of 1918-19:—

1. "A study of Indian Economics" by Pramathanatha Banerjea, M.A., published by Macmillan & Co., (1917 edn.) 4*s*. 6*d*. net. (Pages 1 to 126.)
2. "The Economics of Every day Life," Part I, by T. H. Penson, M.A., Cambridge University Press.

2. For the one year transitory course in the VI Form of 1918-19, Penson's "Economics of Every Day Life" is recommended for use.

3. All these books are intended to be used more as books upon which the lectures should be based, than as text books for detailed study on the part of students. Teachers should prepare easy and intelligible lectures for the students, on the several topics dealt with in the books.

HUMAN PHYSIOLOGY.

(TRANSITORY FOR THE YEAR 1918-19.)

Transitory syllabus for the VI Form.

The human skeleton and its parts treated in a general way. The nature and functions of blood. The circulation of blood. Respiration. The nature of food and the manner in which it is digested and absorbed. Functions of important glands in the Human body. Functions of muscles. Elimination of waste products. Temperature and its maintenance. Functions of the Central Nervous system and sensory organs.

COMMERCE.

TRANSITORY, (FOR 1918-19).

(a) Book-keeping (2 periods a week).

The Double Entry System, Ledger Accounts, their nature and divisions—Personal, Real, and Nominal Goods Account, Capital Account, Premises Accounts, Bills Accounts. Trade Expenses Accounts, and other nominal accounts. Journalising Transactions; Preparation of a Trial Balance. Profit and Loss Account and Balance Sheet.

Subsidiary Books.—Cash Book with Bank and Discount Columns, Sales Books, Purchase Book, Return Books, Bill Books, and Journal. Petty Cash Book.

Text-Book.—Elementary Book-keeping by K. Subramanya Iyer.

(b) Economic Geography. (1 period a week.)

1. *Commercial Geography and its Principles.*—Leading Physical and Political Influences; Necessary conditions of various Industrial and Commercial developments—Agriculture, Manufacture and Commerce.

2. *Geography of the Chief products.*—Wheat, Rice, Sugar, Coffee, Tea, Tobacco, Textile, Raw materials and their manufacture; Cotton, Wool, Jute and Silk.

Coal, Iron, Leather, Petroleum, Timber and Chemicals.

3. A general knowledge of the chief characteristics, Physical features and Resources, Climate and Density of Population of Mysore; Our Mineral, Vegetable and Animal Productions; How raised and disposed of; the Markets to which they are sent and the uses to which they are put; the Foreign Trade of Mysore.

Text-Book.—

Commercial Geography by E. C. K. Gonner.

(c) Commercial Correspondence and Practice (one period a week).

1. The Mechanical Operations of an Office or Counting House; Outgoing letters; Press copying of written and typewritten matter; Modes of addressing official, Commercial and Private letters; Indexing and Cross Reference; Making up letters for post; Addressing envelopes, Enclosures, Late fee letters, Registration and Insurance of letters, Postage, Book and Petty Cash Book; Incoming letters, Filing, Pigeon-holing and Docketing letters.

2. Buying and Selling of goods; Purchase and Sales, Price Lists, Quotations, Orders, How to open Business, Bought and sold notes, Delivery Orders; Invoices, Credit Notes, Delivery Book; Consignment Notes, Debit Notes, Statements; Discount and Commission;

Forwarding Goods, Delivery Book, Consignment Notes, Remitting Money; Postal Orders, Money Orders; Telegraph Money Orders; Receipts for Money.

3. First steps in Business Correspondence; Examples of Letters, Telegrams.

Text-book.—

The Home trade or Modern Commercial Practice by Hooper and Graham (Macmillan & Co).

(*d*) *Banking and Currency* (*one period a week*).

1. Currency. Barter, Disadvantages of Barter.

Money, Its Functions and Attributes; Denominations and Legal Tender Qualities of Metallic and Paper Currencies of India and of England, the weight and fineness of a Sovereign and of a Rupee. Reserves against issues of Currency Notes in India and in England.

2. General Nature of Banking transactions; Utility of Banks, Presidency, Exchange and Joint Stock and Co-operative Shroffs and Sahukars.

3. Functions of a Banker; Relations between Banker and Customer; Revocation of Customer's authority, Bankers and Borrowers; Bills of Exchange, Cheques and Hundies and their negotiation.

Text-book.—

Banking and Currency by Syke's (Rs. 2-3-0) (Butterworth & Co).

C. R. REDDY,
Offg. Inspector-General of Education.

MYSORE STATE RAILWAYS.

OFFICE OF THE AGENT AND SECRETARY TO THE GOVERNMENT OF MYSORE FOR RAILWAYS.

Notice dated 10th May 1918.

The Agent and Secretary for Railways, Government of Mysore, will be glad to see visitors and other gentlemen on business at his office on every Thursday, not being a gazetted holiday, between the hours of 2 and 5 P.M.

2. Government officers of all departments having any business may call between 12 noon and 2 P.M. the same day.

3. During the absence of the Agent and Secretary on tour from headquarters, the Deputy Agent and Under Secretary will receive visitors and attend to them.

4. Special engagements may be made by previous arrangements with the Agent and Secretary.

D. G. DANI,
Agent and Secretary for Railways,
Government of Mysore.